



Analytical Laboratory

13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex - MG03A2
Phone: 980-875-5245 Fax: 980-875-4349

Order Summary Report

Order Number: J11090039

Project Name: NPDES - MONTHLY

Customer Name(s): Sue Wallace, Matthew Dorn, Mark Harper, Todd Spade, Tara Thomas

Customer Address: 11021 BROWER RD.

NORTH BEND, OH 45052

Lab Contact: Theron T James Phone: 980-875-4795

Report Authorized By: _____ **Date:** 9/15/2011
(Signature)

Program Comments:

Miami Fort September NPDES - Week 1

Data Flags & Calculations:

Any analytical tests or individual analytes within a test flagged with a Qualifier indicate a deviation from the method quality system or quality control requirement. The qualifier description is found at the end of the Certificate of Analysis (sample results) under the qualifiers heading. All results are reported on a dry weight basis unless otherwise noted.

Data Package:

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report, Sample Identification, Technical Validation of Data Package, Analytical Laboratory Certificate of Analysis, Analytical Laboratory QC Reports, Sub-contracted Laboratory Results, Customer Specific Data Sheets, Reports & Documentation, Customer Database Entries, Test Case Narratives, Chain of Custody (COC)

Certification:

The Analytical Laboratory holds the following State Certifications : North Carolina (DENR) Certificate #248, South Carolina (DHEC) Laboratory ID # 99005. Contact the Analytical Laboratory for definitive information about the certification status of specific methods.

The results in this report meet NELAP requirements through New York State Department of Health Certification # 11717.. Certified parameters are designated with an "N" in the analytical report.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date and Time	Collected By	Sample Description
2011019193	MIAMI-FORT	06-Sep-11 7:35 AM	ILLEGIBLE	OUTFALL 002
2011019194	MIAMI-FORT	06-Sep-11 7:52 AM	ILLEGIBLE	OUTFALL 608
2 Total Samples				

Technical Validation Review

Checklist:

COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).

☒ Yes

☐ No

All Results are less than the laboratory reporting limits.

☐ Yes

☒ No

All laboratory QA/QC requirements are acceptable.

☒ Yes

☐ No

The Vendor Laboratories have been qualified by the Analytical Laboratory

N/A

Report Sections Included:

☒ Job Summary Report

☒ Sample Identification

☒ Technical Validation of Data Package

☒ Analytical Laboratory Certificate of Analysis

☐ Analytical Laboratory QC Report

☐ Sub-contracted Laboratory Results

☐ Customer Specific Data Sheets, Reports, & Documentation

☐ Customer Database Entries

☒ Chain of Custody

☐ Electronic Data Deliverable (EDD) Sent Separately

Reviewed By: Theron T James

Date: 9/15/2011

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

Order # J11090039

Site: OUTFALL 002

Collection Date: 06-Sep-11 7:35 AM

Sample #: 2011019193

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
<u>TOTAL DISSOLVED SOLIDS</u>							
TDS	1300	mg/L	N	20	SM2540C	07-Sep-11 16:15	CLEEMAN

Site: OUTFALL 608

Collection Date: 06-Sep-11 7:52 AM

Sample #: 2011019194

Matrix: NPDES

Analyte	Result	Units	Qualifiers	RDL	Method	Analysis Date/Time	Analyst
<u>ALKALINITY (FIXED END POINT 4.5)</u>							
Alkalinity (mg/L CaCO ₃)	1100	mg/L (CaCO ₃)	N	0.1	SM2320B	09-Sep-11 14:08	CLEEMAN

INORGANIC IONS BY IC

Chloride	5700	mg/L	N	100	EPA 300.0	09-Sep-11 18:49	CLEEMAN
Fluoride	1.7	mg/L	N	1	EPA 300.0	09-Sep-11 18:49	CLEEMAN
Sulfate	22000	mg/L	N	300	EPA 300.0	09-Sep-11 18:49	CLEEMAN

TOTAL METALS BY ICP

Boron (B)	282	mg/L	N	1	EPA 200.7	09-Sep-11 13:42	MHH7131
Iron (Fe)	0.075	mg/L	N	0.01	EPA 200.7	09-Sep-11 13:42	MHH7131
Manganese (Mn)	0.435	mg/L	N	0.005	EPA 200.7	09-Sep-11 13:42	MHH7131

TOTAL RECOVERABLE METALS BY ICP-MS

Arsenic (As)	< 20	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Barium (Ba)	119	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Cadmium (Cd)	< 20	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Chromium (Cr)	< 20	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Copper (Cu)	< 20	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Lead (Pb)	< 20	ug/L	N	20	EPA 200.8	09-Sep-11 13:47	DJSULL1
Zinc (Zn)	< 40	ug/L	N	40	EPA 200.8	09-Sep-11 13:47	DJSULL1

TOTAL DISSOLVED SOLIDS

TDS	45000	mg/L	N	200	SM2540C	07-Sep-11 16:15	CLEEMAN
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TOTAL SUSPENDED SOLIDS

TSS	8.0	mg/L	N	5	SM2540D	08-Sep-11 14:04	CLEEMAN
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Duke Energy Analytical Laboratory

Mail Code MGO3A2 (Building 7405)

13339 Hagers Ferry Rd

Huntersville, N. C. 28078

(704) 875-5245

(704) 875-4349

Fax:

Analytical Laboratory Use Only

LIMS #

J11090039

Sample Class NPDES

Samples NC

Originati SC

ng From OH X

Logged By

V98

Date & Time

9/6/11

11:21

Vendor

1.9

Cooler Temp (C)

SAMPLE PROGRAM

Ground Water

NPDES X

Drinking Water

UST

RCRA Waste

PO #

Preserv.: 1=HCL

2=H₂SO₄ 3=HNO₃

4=Ice 5=None

IMR #

Customer to complete all appropriate non-shaded areas.

14 Collection Information

Date	Time	Signature
9/6/11	07:35	[Signature]
9/6/11	07:52	[Signature]

15 Analyses Required

17 Comp.

18 Grab

TDS

Cl, F, SO₄

B, Fe, Mn, As, Ba,

Cd, Cr, Cu, Pb, Zn

TSS, Alkalinity

12 Chem Desktop No.

13 Sample Description or ID

LAB USE ONLY

11 Lab ID

2011019193
2011019194

Customer to complete appropriate columns to right

Customer to sign & date below - fill out from left to right.

1) Relinquished By	Date/Time	2) Accepted By	Date/Time
[Signature]	9/6/2011 08:18	UPS	9/6/11 PM
3) Relinquished By	Date/Time	4) Accepted By	Date/Time
UPS	9/7/11 10:30	V.A. Sigmur	9/7/11 10:30
5) Relinquished By	Date/Time	6) Accepted By:	Date/Time
7) Relinquished By	Date/Time	8) Accepted By:	Date/Time
9) Seal/Locked By	Date/Time	10) Seal/Lock Opened By	Date/Time
[Signature]	9/6/2011 08:18	V.A. Sigmur	9/7/11 10:40
11) Seal/Locked By	Date/Time	12) Seal/Lock Opened By	Date/Time

Comments:

ICP TOT - B, Fe, Mn IMS-TRM - As, Ba, Cd, Cr, Cu, Pb, Zn

Customer, IMPORTANT!
Please indicate desired turnaround.

22 Requested Turnaround

14 Days

*7 Days

*48 Hr

*Other

*Add. Cost Will Apply

Customer must Complete